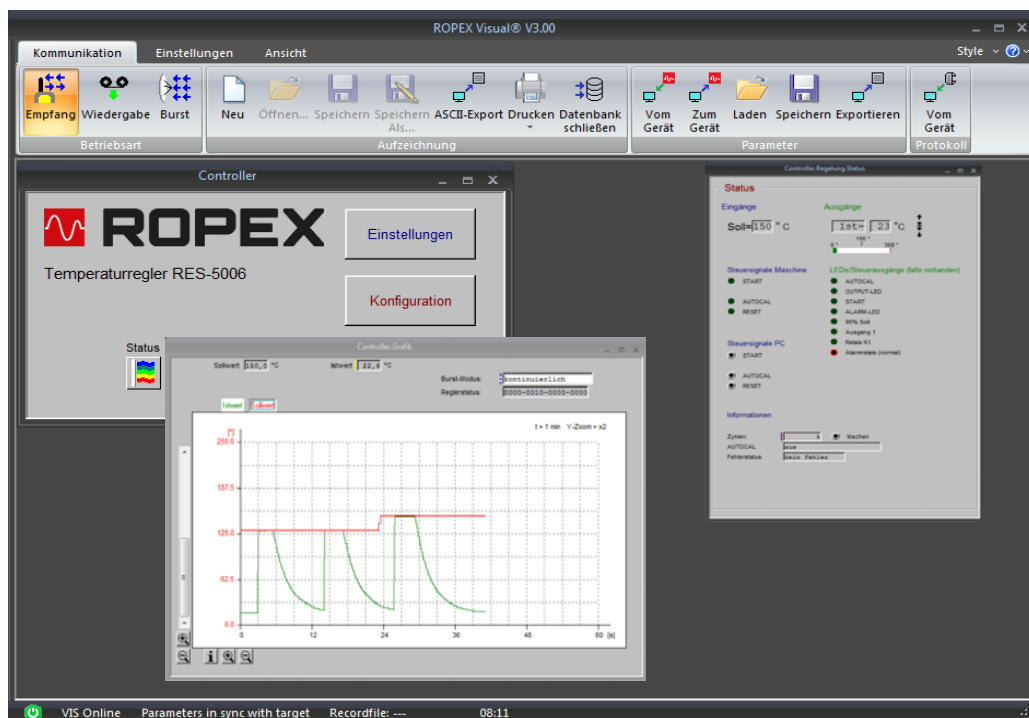


## ROPEX Visual®

### User Guide



### Important features

- PC software compatible with Microsoft Windows 7, Windows 8, Windows 10
- Display of setting and configuration data
- Display of target and actual temperature in real time
- Storing data on a data carrier (e.g. hard drive)
- Suitable for use with series 5000 and 6000 RESISTRON/CIRUS temperature controllers with USB port (ROPEX Visual®)

1.9.17

<b>1</b>	<b>Functional principle</b>	3	<b>4</b>	<b>Window</b>	9
<b>2</b>	<b>Software and driver installation</b>	3	4.1	<i>Controller window</i>	9
2.1	System requirements	3	4.2	<i>Status window</i>	9
2.1.1	Supported operating systems	3	4.3	<i>Graphics window</i>	10
2.1.2	Run time environment	3	4.4	<i>Protocol window</i>	11
2.1.3	Supported temperature controllers	3	4.5	<i>Settings window</i>	12
2.2	Installation	4	4.6	<i>Configuration window</i>	12
2.3	Updating	4	4.7	<i>Recording panel window</i>	12
<b>3</b>	<b>Functions of ROPEX Visual®</b>	5	<b>5</b>	<b>Menus</b>	14
3.1	Starting and closing the software	5	5.1	<i>Communication menu</i>	14
3.1.1	Selecting the communication interface	5	5.1.1	<i>Operating mode symbol area</i>	14
3.1.2	Selecting the firmware version for the controller	5	5.1.2	<i>Recording symbol area</i>	14
3.2	Firmware version management	5	5.1.3	<i>Parameters symbol area</i>	15
3.2.1	Firmware versions for the controller	5	5.1.4	<i>Protocol symbol area</i>	16
3.2.2	Graphic data version	6	5.2	<i>Settings menu</i>	16
3.3	Screen layout	6	5.2.1	<i>Configuration symbol area</i>	16
3.4	Transmission modes	7	5.2.2	<i>Access authorization symbol area</i>	18
3.4.1	Receive mode	7	5.2.3	<i>Language symbol area</i>	19
3.4.2	Burst mode	7	5.3	<i>View menu</i>	19
3.4.3	Playback mode	8	5.3.1	<i>Window symbol area</i>	19
3.5	Displaying and editing data	8	5.3.2	<i>Layout symbol area</i>	19
			5.4	<i>Style menu</i>	19
			5.5	<i>Menu ?</i>	19
<b>6</b>	<b>Status bar</b>	20	<b>6</b>	<b>Status bar</b>	20
<b>7</b>	<b>Software version number</b>	20	<b>7</b>	<b>Software version number</b>	20
<b>8</b>	<b>Uninstallation of software and drivers</b>	21	<b>8</b>	<b>Uninstallation of software and drivers</b>	21
<b>9</b>	<b>Copyright/Trademarks</b>	21	<b>9</b>	<b>Copyright/Trademarks</b>	21

## 1 Functional principle

The ROPEX Visual<sup>®</sup> visualisation software is able to change the configuration of a 5000 or 6000 series RESISTRON/CIRUS temperature controller, and also document the current sealing parameters.

Communication is via the integrated USB interface of the controller (ROPEX Visual<sup>®</sup>) and a USB port on a Windows PC.

The functional scope of ROPEX Visual<sup>®</sup> depends on the controller used. The functions available and the configuration options are stated in the latest documentation on the controller.

The documentation for the individual controllers is available to download from the [ROPEX website](#).

RESISTRON/CIRUS temperature controller with USB interface  
(e.g. RES-5010 from April 2016)



PC/Notebook with  
USB interface

## 2 Software and driver installation

### 2.1 System requirements

#### 2.1.1 Supported operating systems

ROPEX Visual<sup>®</sup> has been tested with Microsoft operating systems Windows 7, Windows 8 and Windows 10. The software is not guaranteed to function if any other operating system is used.

#### 2.1.2 Run time environment

ROPEX Visual<sup>®</sup> requires .NET Framework 3.5 with Service pack 1. Installation of ROPEX Visual<sup>®</sup> is possible only after .NET Framework 3.5 SP1 has been installed.

Every time ROPEX Visual<sup>®</sup> is started, the program checks whether .NET Framework 3.5 SP1 is installed. If Framework is missing, an error message will appear.

#### 2.1.3 Supported temperature controllers

ROPEX Visual<sup>®</sup> functions with 5000 and 6000 series RESISTRON/CIRUS temperature controllers from production date 04/2016. These controllers are factory-fitted with a micro-USB port. To connect with the PC, you need a USB cable with a USB 2.0 micro-B connector and a USB 2.0 Type A connector.

For the 400 and 600 series RESISTRON/CIRUS temperature controllers, use the ROPEX visualisation soft-

ware in conjunction with the "CI-USB-1" communication interface. The software can be downloaded from the [ROPEX website](#) under Downloads using the search term "CI-USB-1".

## 2.2 Installation

**!** ROPEX Visual<sup>®</sup> must be installed before a temperature controller is connected to the PC. Only then will the correct driver for ROPEX Visual<sup>®</sup> be installed. Otherwise, malfunctions are possible.

**!** Administrator rights are required to install the software. If the setup file is run without Administrator rights, a prompt asking for Administrator login information will appear.

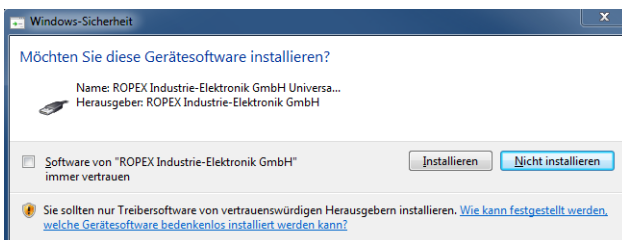
ROPEX Visual<sup>®</sup> can be downloaded from the [ROPEX web site](#) as a [ZIP file](#).

The unzipped executable setup file installs the software on the PC. Proceed as follows:

1. Switch on the PC and start the operating system.
2. Start the setup file ROPEXvisual\_setup.exe (e.g. via Explorer or START -> RUN).  
During installation, you will see various prompts for language, license agreement, selecting the target directory and creating a Desktop icon.

Only for installation under Windows 7:

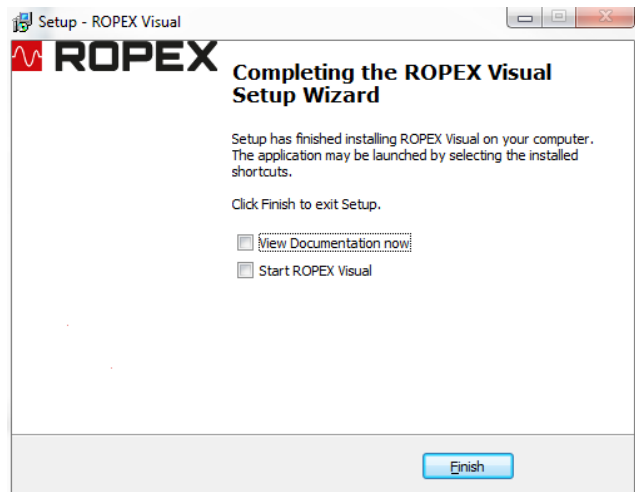
During installation, a prompt for installing the driver package will appear. Accept this driver package by clicking on the *Install* button.



If the installation is under Windows 8 or Windows 10, no driver package is installed because the required driver is already contained in the operating system.

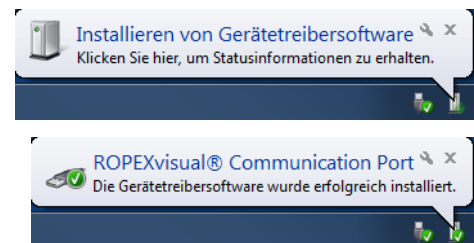
Once all data are entered and confirmed,

ROPEX Visual<sup>®</sup> has been installed.



Click the *Finish* button to complete the installation. ROPEX Visual<sup>®</sup> can be started immediately after installation or this documentation can be displayed if the relevant options are selected.

3. After installation, the RESISTRON/CIRUS temperature controller can be connected to the PC via a USB cable.
4. The correct installation of the driver is indicated by the following prompts in the Windows operating system:



## 2.3 Updating

If ROPEX Visual<sup>®</sup> is already installed on the PC and a more recent version is set up, ROPEX Visual<sup>®</sup> will be updated and the following settings will be retained:

- Event notification (↪ section 5.2.1 "Configuration symbol area" on page 16)
- Modified file "Mail.txt"
- Changed passwords (↪ section 5.2.2 "Access authorization symbol area" on page 18)



### 3 Functions of ROPEX Visual®

#### 3.1 Starting and closing the software

ROPEX Visual® can be started by double-clicking on the Desktop icon (if created during installation)



or via

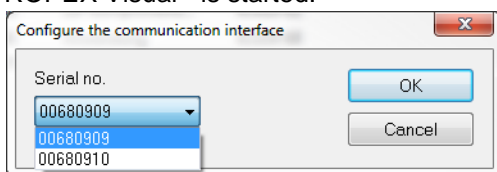
START -> PROGRAMS ->ROPEX -> ROPEX Visual -> ROPEX Visual.

ROPEX Visual® can be closed via the "X" in the top right-hand corner of the title bar.

##### 3.1.1 Selecting the communication interface

ROPEX Visual® can communicate with only one temperature controller at a time. However, 8 temperature controllers can be connected to the PC at the same time. It is then possible to select the temperature controller with which communication is to take place. The serial numbers of the controllers act as the distinguishing feature.

If multiple temperature controllers are connected to the PC before ROPEX Visual® is started, the following selection menu containing the serial numbers of the connected temperature controllers will be displayed when ROPEX Visual® is started:

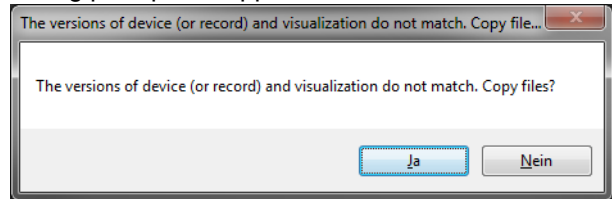


If additional temperature controllers are connected to the PC after the software is started, the required temperature controller can be selected via the *Settings -> Interface* menu (↪ section 5.2.1 "Configuration symbol area" on page 16).

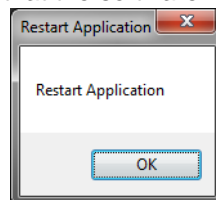
##### 3.1.2 Selecting the firmware version for the controller

When ROPEX Visual® is started, the firmware version of the connected controller is checked (↪ section 3.2.1 "Firmware versions for the controller" on page 5).

If the connected controller has a different firmware version to the version loaded on ROPEX Visual®, the following prompt will appear:

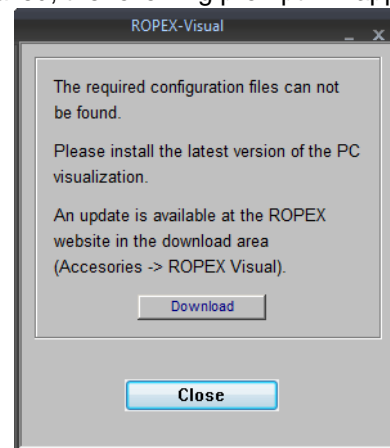


Confirm the prompt with Yes. Another prompt stating that the software needs to be restarted then appears:



ROPEX Visual® is closed by confirming with OK. If ROPEX Visual® has been restarted manually, the new firmware version for the connected controller will be active.

If no suitable version for the connected controller has been installed, the following prompt will appear:



Download the latest version from the ROPEX website by clicking on the Download button and then install (↪ section 2 "Software and driver installation" on page 3).

#### 3.2 Firmware version management

##### 3.2.1 Firmware versions for the controller

ROPEX Visual® offers various setting options and functions, depending on the firmware version of the

connected RESISTRON/CIRUS temperature controller. These setting options and functions are stated in the latest documentation for the controller.

When ROPEX Visual® is installed, version information for all currently available firmware versions of the 5000 and 6000 series temperature controllers are saved on the PC.

**! The latest version of ROPEX Visual® should always be used. All available firmware versions of the temperature controller will then be supported.**

ROPEX Visual® saves the firmware version of the last connected controller and uses it again at the next restart.

If the connected controller has a different firmware version to the version loaded on ROPEX Visual®, a prompt will appear. ROPEX Visual® will close when the prompt is confirmed. When ROPEX Visual® is restarted, the new firmware version is active and can be used with the connected controller.

### 3.2.2 Graphic data version

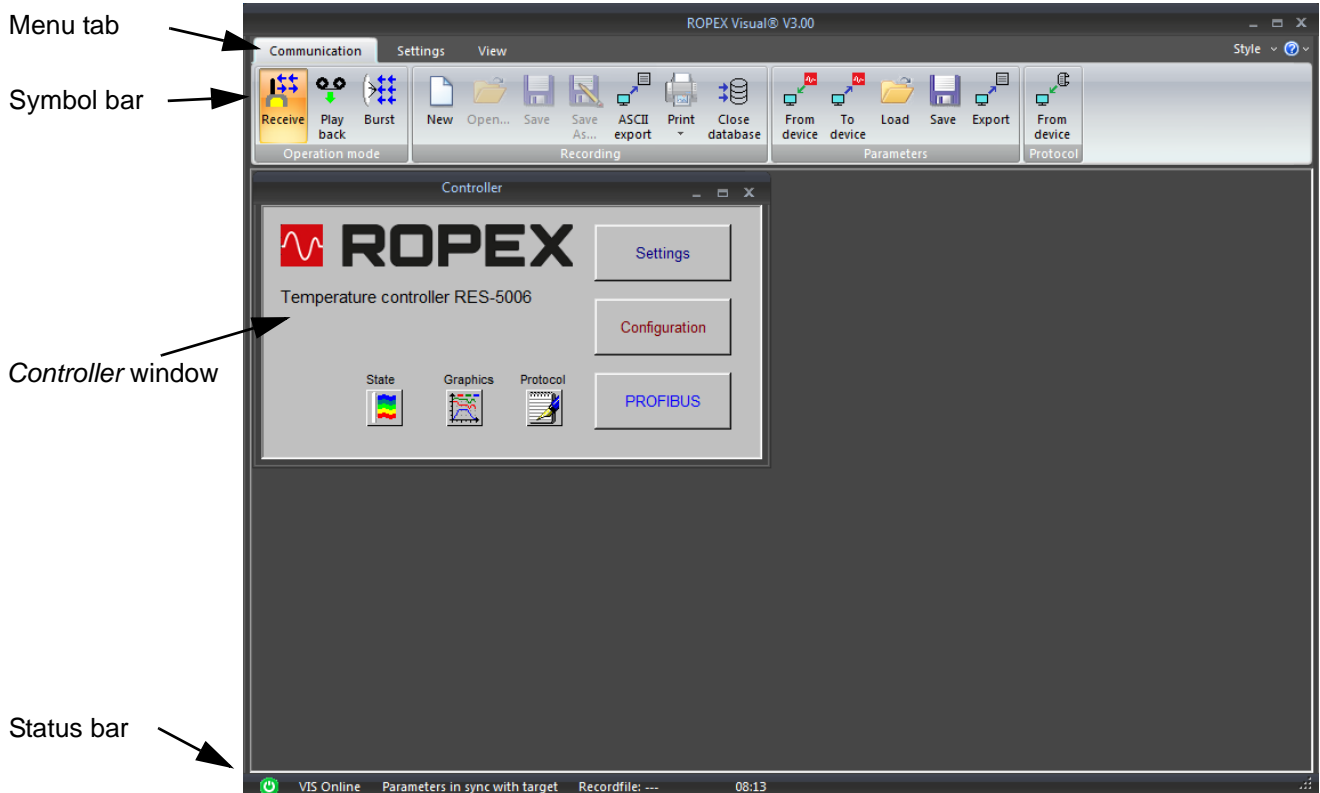
When graphic data are saved (↩ section 5.1 "Communication menu" on page 14), the current firmware version of the connected controller is also saved. These data can be loaded at a later time only if the active firmware version in ROPEX Visual® is identical. If this is not the case, a prompt will appear. Once ROPEX Visual® has been restarted, the graphic data can be loaded and displayed.

If a controller is connected and graphic data of a different firmware version is to be loaded, a prompt to change the version will appear. ROPEX Visual® will then close and has to be restarted.

Once ROPEX Visual® is restarted, the prompt about the firmware version of the controller must not be confirmed. If this prompt is confirmed, the software will restart again with the firmware version of the connected controller.

### 3.3 Screen layout

ROPEX Visual® displays the following screen at start-up:

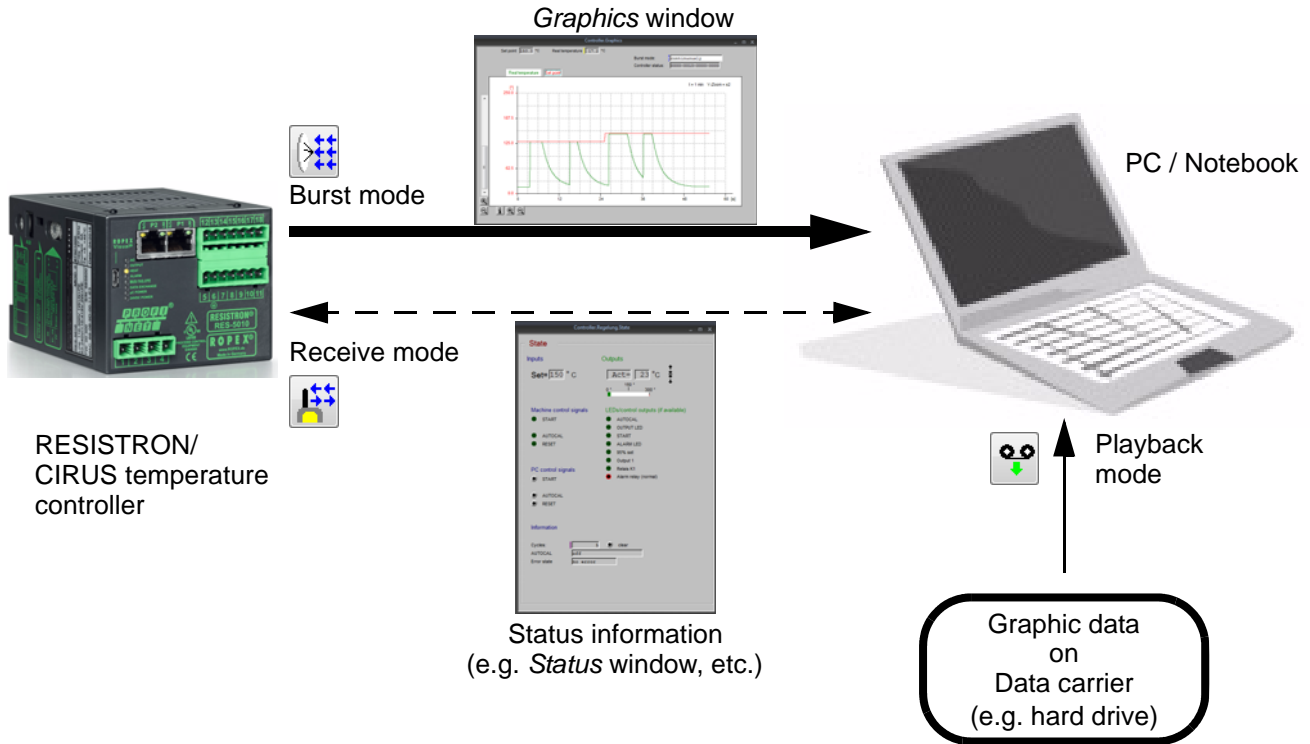


Example: RES-5006 controller

### 3.4 Transmission modes

sion modes) between controller and PC. They are described below.

To display and enter data, ROPEX Visual® uses various operating modes for transmitting data (transmis-



#### 3.4.1 Receive mode



Receive mode (transmission of status information) is the standard operating mode of ROPEX Visual®. In this operating mode, the controller's parameter data (setting and configuration data) are transmitted to/from the PC. This transmission occurs only if parameters are changed or the controller is switched on/off (online/offline mode).

**⚠ In receive mode, no data for the *Graphic* window (↖ section 4.3 "Graphics window" on page 10) can be transmitted. Burst mode (↖ section 3.4.2 "Burst mode" on page 7) is required here.**

#### 3.4.2 Burst mode



Burst mode is an operating mode for transmitting data for the *Graphic* window (↖ section 4.3 "Graphics window" on page 10). In this operating mode, a reduced data set is transmitted in realtime (50 or 60 times per second). Therefore, other data transmissions (e.g. configuration data as in receive mode) cannot be run at the same time.

**⚠ In burst mode, the contents of windows are partly invalid (*Status* window, *Settings* window, ...).**

When the *Graphics* window is opened, ROPEX Visual® starts burst mode automatically. If the transmission modes are toggled while the *Graphic* window is open, the user has to reactivate burst mode by clicking on the *Burst mode* button.

### 3.4.3 Playback mode



In this operating mode, graphic data saved in a file on a data carrier (e.g. hard drive) are displayed in the *Graphic* window (↪ section 4.3 "Graphics window" on page 10). This operating mode is switched on by clicking on the *Playback mode* button.

Only then can saved graphic data be loaded in the *Communication* -> *Open* menu.

**⚠ In playback mode, the contents of windows are partly invalid (*Status* window, *Settings* window, ...).**

### 3.5 Displaying and editing data

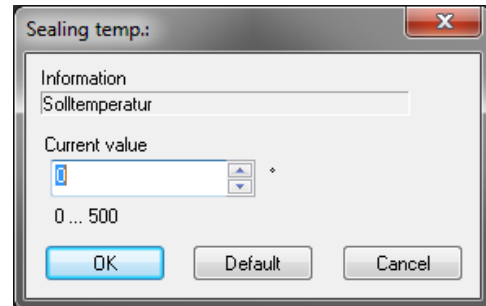
In the ROPEX Visual® (↪ section 4 "Window" on page 9) windows, parameters (setting and configuration data) of the connected controller can be displayed and edited.

The parameters are always displayed. Depending on the selected password level (↪ section 5.2.2 "Access authorization symbol area" on page 18), it might also be possible to edit the parameters individually. Param-

eters with a grey background cannot be edited. Editable parameters have a white background.



Mouse-click opens an input window



Clicking in the parameter display opens the corresponding input window. The parameter can be edited in the permitted area (e.g. Sealing temperature: 0 ... 500 °C in the 500 °C range). For parameters with restricted selection options (e.g. hold mode: "ON", "OFF", "2 sec.") a drop-down menu can be opened for making the selection.

The default value (factory setting) for these parameters can be set via the *Default* button.

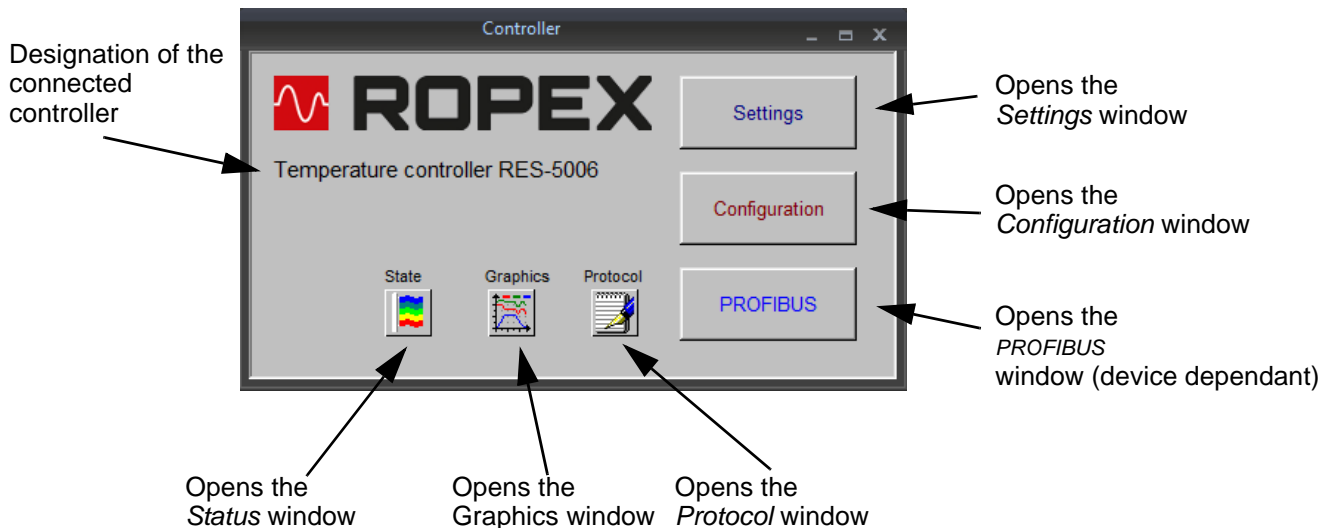
The input is confirmed by the *OK* button or cancelled by the *Cancel* button.

## 4 Window

### 4.1 Controller window

The *Controller* window is always open and cannot be closed.

All other windows can be opened via the *Controller* main window.



### 4.2 Status window

This window displays various items of status information, depending on the function scope of the connected controller. This information is split into the following groups:

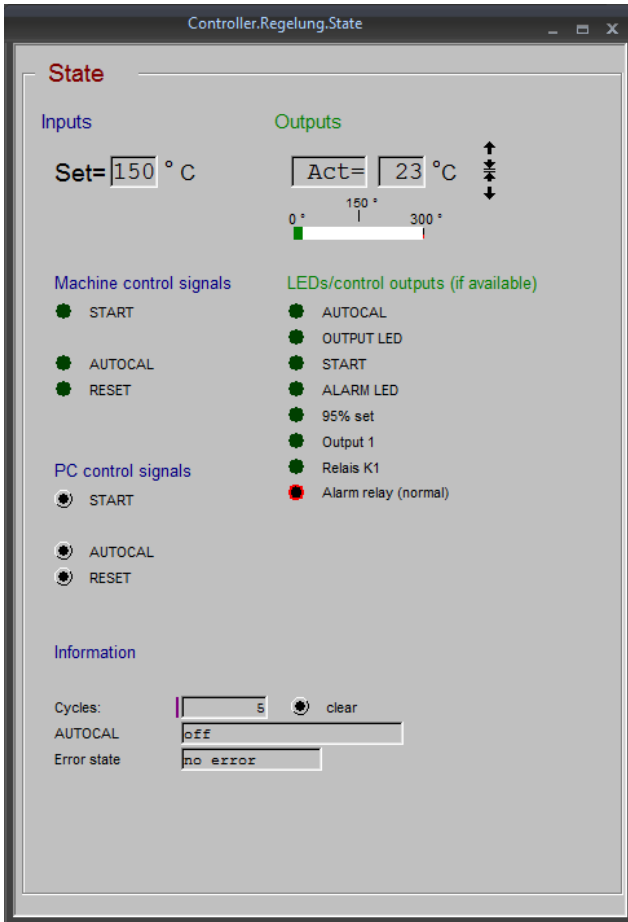
- **Inputs**  
e.g. value of the analogue input for the setpoint setting
- **Machine control signals**  
State of the digital control signals (e.g. START, AUTOCAL, ...). An active signal is shown by a coloured dot next to the signal designation. This enables the function of the external control signals (e.g. Of the PLC outputs) to be checked.
- **PC control signals**  
Function possible according to the selected password level (☞ section 5.2.2 "Access authorization symbol area" on page 18).  
Clicking on the button next to the signal designation

activates the corresponding signals from ROPEX Visual®. The signal is active for as long as the button is clicked.

This is helpful during commissioning if the external control signals are not yet connected.

- **Outputs**  
e.g. value of the analogue output for the actual value setting.
- **LEDs/control outputs (if present)**  
Displays the controller LEDs (if present) such as Output, START signal, AUTOCAL, ...  
The status of the optional output signals is also displayed (e.g. MOD 46 "Temperature OK").
- **Information**  
Displays the error messages from the controller (if present in the connected controller), as well as information on the status of the AUTOCAL and AUTOCOMP functions.  
For controllers with integrated time control, information about the sealing and cooling phases of the

time control (if activated in the controller) and of the cycle counter is also displayed.



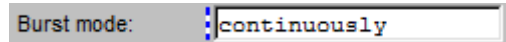
Example: *Status* window

### 4.3 Graphics window

**!** Data output in the *Graphics* window is possible only in burst mode (↪ section 3.4.2 "Burst mode" on page 7).

When the *Graphics* window is opened, burst mode for ROPEX Visual® is automatically activated. If the transmission modes are toggled while the *Graphic* window is open, the user has to reactivate burst mode by clicking on the *Burst mode* button (↪ section 3.4.2 "Burst mode" on page 7).

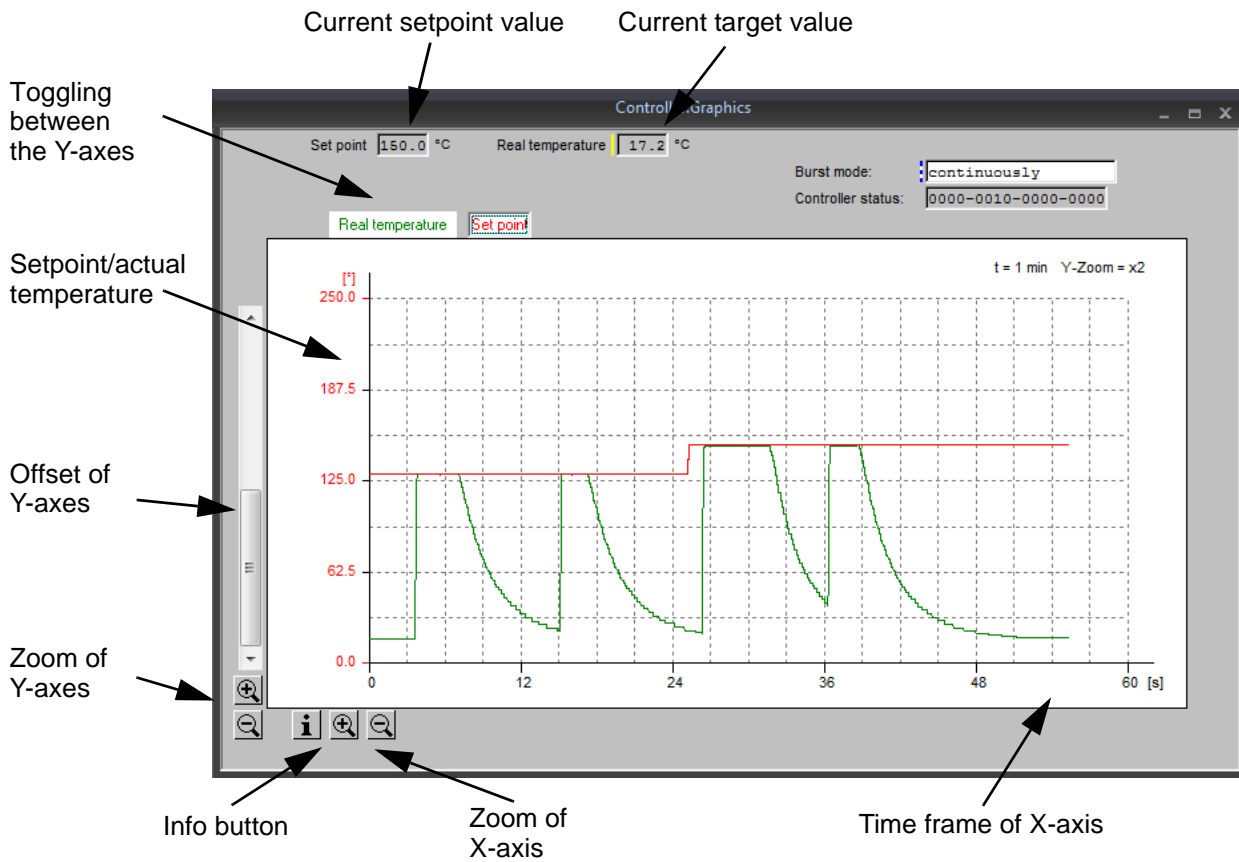
In this window, the setpoint and actual controller temperatures are shown as a graphic on a time axis. The data records are logged by default only if the *START* signal is activated. The *Burst mode* parameter, however, allows continuous data logging to be configured:



This parameter can be edited only in receive mode (↪ section 3.4.1 "Receive mode" on page 7).

Depending on the function scope of the connected controller, additional data, such as the closing force, can also be logged in this window.

**!** When burst mode is activated, a new data record is logged every 20 ms.



Example: *Graphics* window

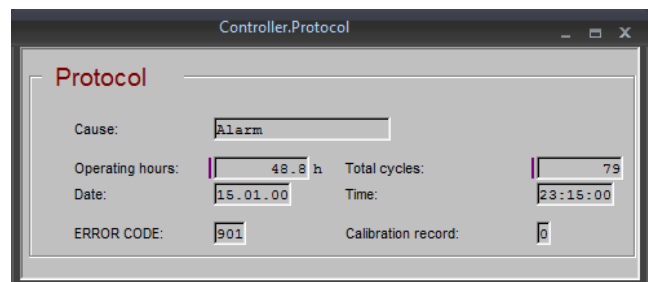
The integrated zoom function of the Y-axis shows the logged data records in greater detail. A different zoom setting can be selected for each Y-axis.

The *Recording panel* window (see section 4.7 "Recording panel window" on page 12) also displays individual data records from the *Graphic* window as numerical values.

The content of the window can be deleted in the *Communication* -> *New* menu or via the *Clear* button in the recording panel. The logged data are then lost.

#### 4.4 Protocol window

This window displays a diagnostic entry for each of the previously loaded protocols (see section 5.1.4 "Protocol symbol area" on page 16).



Each diagnostic entry contains the following information:

- the reason for the entry (alarm, Autocal run, clock set)
- the operating hours counter and cycle counter of the temperature controller to the diagnostic time



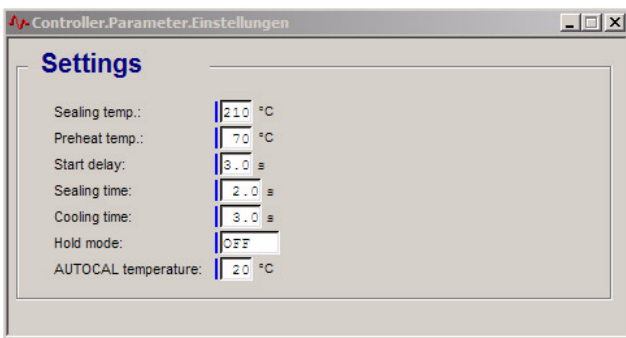
- a time stamp of the device's realtime clock
- the error code, if the reason is an alarm
- the calibration data record that was selected at the diagnostic time

Please use the recording panel (↵ section 4.7 "Recording panel window" on page 12) to view all diagnostic entries in succession.

The protocol loaded from the temperature controller can be saved for later use on a data carrier via *Communication -> Save as...* or via *Communication -> ASCII export*.

### 4.5 Settings window

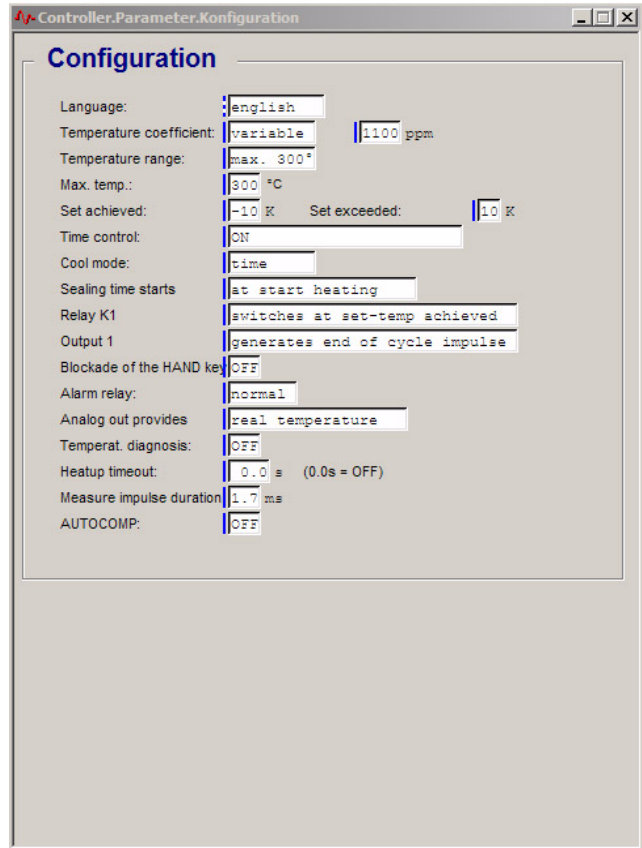
This window displays the setting data for the connected controller. With front panel controllers, these are the data from the settings menu.



Example: Settings window (device-dependant)

### 4.6 Configuration window

This window displays the configuration data for the connected controller. With front panel controllers, these are the data from the configuration menu.



Example: Configuration window (device-dependant)

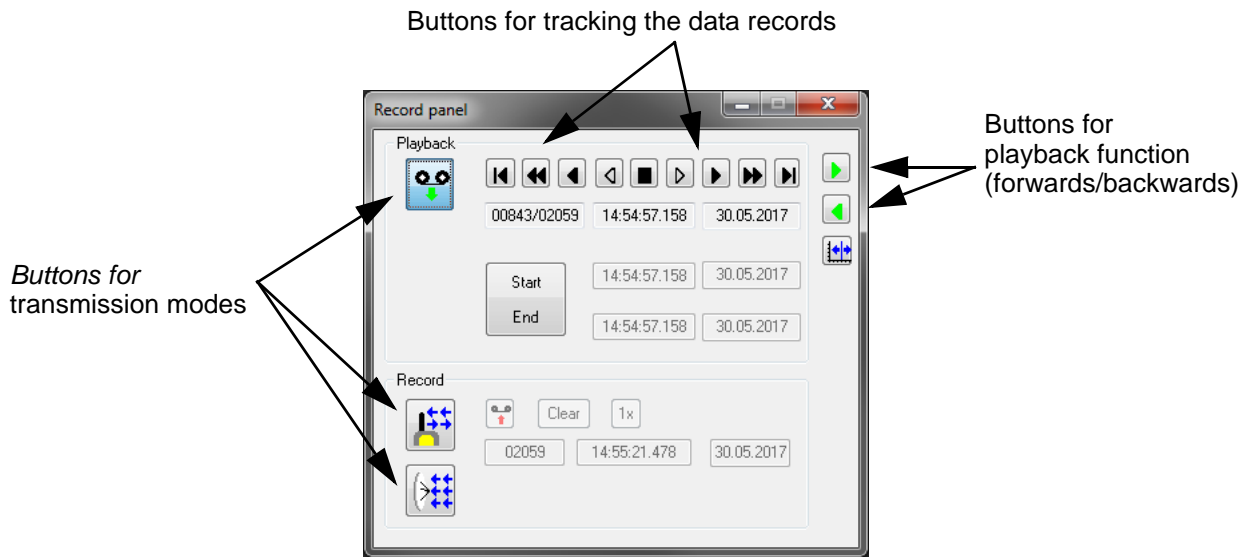
### 4.7 Recording panel window

The recording panel can be accessed via the *View -> Recording panel* menu.

It can be placed anywhere on the Desktop and can remain open at all times. The window position is saved when ROPEX Visual® is closed and restored again when started.

This window displays in detail the data records in the Graphics window (↵ section 4.3 "Graphics window" on

page 10) or in the *Protocol* window (↪ section 4.4 "Protocol window" on page 11).



The playback function buttons can simulate the sequence of the logged data records (forwards or backwards sequence).

The tracking buttons enable specific data records to be selected and displayed. They have the following functions:

Button	Function
	Jumps to the first logged data record (start)
	Jumps 100 data records back (2s)
	Jumps 10 data records back (200ms)
	Jumps one data record back (20ms)

Button	Function
	Stops the playback function sequence
	Jumps one data record forward (20ms)
	Jumps 10 data records forward (200ms)
	Jumps 100 data records forward (2ms)
	Jumps to the last logged data record (end)

Clicking on the buttons also allows you to toggle between the various transmission modes (↪ section 3.3 "Screen layout" on page 6).

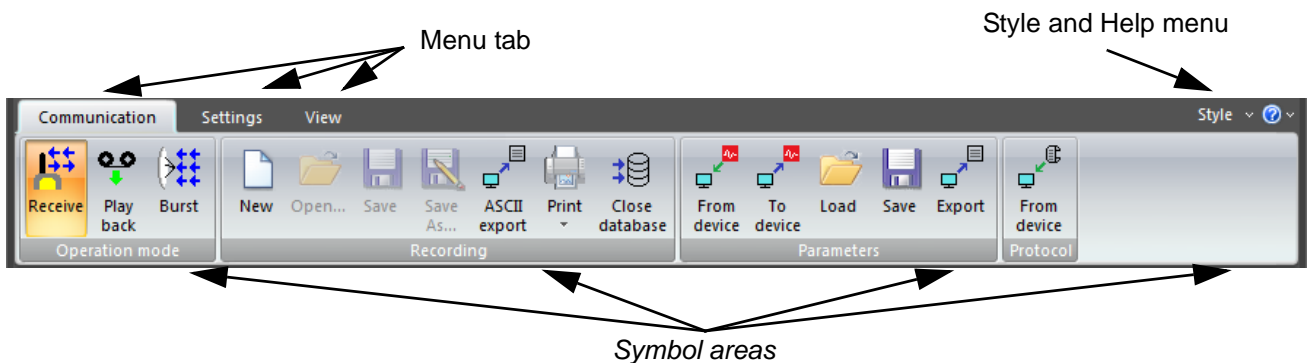
## 5 Menus

There are three menu tabs, each of which is subdivided into symbol areas:

- *Communication*
- *Settings*

- *View*

The *Style* and *Help* menus are positioned in the top right part of the screen.



### 5.1 *Communication* menu

The *Communication* menu contains the *Operating mode*, *Recording* and *Parameters* symbol areas.

#### **Burst mode symbol**



Activates burst mode (↪ section 3.4.2 "Burst mode" on page 7) for transmitting data between the connected RESISTRON/CIRUS temperature controller and the *Graphics* window (↪ section 4.3 "Graphics window" on page 10) of ROPEX Visual®.

#### 5.1.1 *Operating mode* symbol area

##### **Receive mode symbol**



Activates receive mode (↪ section 3.4.1 "Receive mode" on page 7) for transmitting setting and configuration data between ROPEX Visual® and the connected RESISTRON/CIRUS temperature controller.

##### **Playback mode symbol**



Activates playback mode (↪ section 3.4.3 "Playback mode" on page 8) for loading data from a data carrier (e.g. hard drive) to the *Graphic* window (↪ section 4.3 "Graphics window" on page 10).

#### 5.1.2 *Recording* symbol area

##### **New**


Deletes the content of the *Graphics* window (↪ section 4.3 "Graphics window" on page 10) or the last protocol loaded by the temperature controller (↪ section 4.4 "Protocol window" on page 11). Displayed and logged data are lost.

##### **Open**

This button is active only in playback mode (↪ section 3.4.3 "Playback mode" on page 8). Opens a selection menu for loading data for the *Graphics* window (↪ section 4.3 "Graphics window" on page 10) or the *Protocol* window (↪ section 4.4 "Protocol window" on page 11). This enables saved data from the *Graphics*, or *Protocol* windows to be re-loaded and displayed.

If the firmware version of the saved data does not match the version saved in ROPEX Visual®, the soft-

ware will be closed following a prompt. After a restart, the correct firmware version is active and the required data can then be loaded (↵ section 3.2.2 "Graphic data version" on page 6).

 **Only files that were saved previously in *Communication* -> *Save* or *Communication* -> *Save as...* menus can be loaded.**

### Save

Active only if data records are displayed in the *Graphic* window.

Opens an input menu for saving the data in the *Graphic* window. The RVD (ROPEX Visual Data) format is used as a data format.

The path last used for saving to a data carrier (e.g. hard drive) is retained for the next save.

The saved data can be re-loaded via the *Communication* -> *Open...* menu.

### Save as...

Active only if data records are displayed in the *Graphic* window.

Saves the data in the *Graphics* window in a new file on the data carrier (e.g. as a copy).

The saved data can be re-loaded via the *Communication* -> *Open...* menu.

### Close database

Same function as the *Communication* -> *New* menu (↵ section 5.1 "Communication menu" on page 14).

### Print

Prints out the content of the *Graphics* window (↵ section 4 "Window" on page 9). The *Graphics* window must have been clicked beforehand so it is highlighted.

 **The print function is not available for all windows.**

Clicking on the bottom part of the *Print* symbol opens the Print Preview.

In Print Preview, the view size can be adjusted:

- Enlarge the view:  
Left-click
- Reduce the view:  
Right-click

The adjusted view can then be printed out by clicking on the *Print* symbol.

### ASCII export

Saves the data records in the *Graphics* window (↵ section 4.3 "Graphics window" on page 10) in ASCII format in a file (e.g. on the hard drive).


The data are saved in CSV format. The semicolon ";" (German format) or comma "," (US format) can be selected as a separator for the data export.

The separator is selected in *Settings* -> *Data storage* at "General export settings" (↵ section 5.2.1 "Configuration symbol area" on page 16).

The ASCII export occurs in the following sequence:

- Date
- Time
- Actual closing force in N
- Sensor temperature in °C
- Setpoint temperature in °C
- Actual temperature in °C

Data not available with the currently connected controller are nonetheless output and marked as invalid with the value "-32767".

 **The saved ASCII file cannot be reloaded with ROPEX Visual®. This can be done only with files that were saved in the *Communication* -> *Save* or *Communication* -> *Save as...* menu.**

## 5.1.3 Parameters symbol area

### From device

Loads the setting and configuration data from controller to ROPEX Visual®.

### To device

Saves setting and configuration data from the ROPEX Visual® windows to the connected controller. This makes sense only if setting and configuration data have already been loaded from a data carrier to ROPEX Visual®.

See *Communication* --> *Load parameters* menu.

Data can be saved in the controller only from password level 3 (or higher) (↵ section 5.2.2 "Access authorization symbol area" on page 18). It is not possible to save data at a lower password level. A prompt appears on the screen as a warning.

### Loading

Loads the setting and configuration data from a file (e.g. on the hard drive) to ROPEX Visual®.

The data to be loaded can differ in terms of type and number from the setting and configuration data of the connected controller.

In this case, a prompt will appear when data are loaded if certain data do not match the firmware version of the connected controller. There are two distinctly different situations:

- No data have been saved to the controller. The corresponding data will then be discarded.
- The data required for the controller are not contained in the saved record. The corresponding data in ROPEX Visual® will then returned to the factory settings.

**! Only files previously saved in the Communication -> Save parameters menu can be loaded.**

### Save

Saves the setting and configuration data from ROPEX Visual® in a file (e.g. on the hard drive) . The data are saved in a special XML format of ROPEX. The saved data can be re-loaded to ROPEX Visual® via *Communication -> Load parameters* menu.

### Export

Saves the setting and configuration data in ASCII format in a file (e.g. on the hard drive) . The data are saved in CSV format.

The data saved in this way can be processed, using a text processing program for example, and printed.

## 5.1.4 Protocol symbol area

### From device

Visible only when at least password level 3 is activated. This function is for loading the diagnostic data saved in the temperature controller to ROPEX Visual®.

As soon as the data transmission is complete, ROPEX Visual® automatically switches to playback mode. The loaded diagnostic data can then be displayed in the *Protocol* window in single steps using the recording panel (↪ section 4.4 "Protocol window" on page 11).

## 5.2 Settings menu

### 5.2.1 Configuration symbol area

#### Interfaces

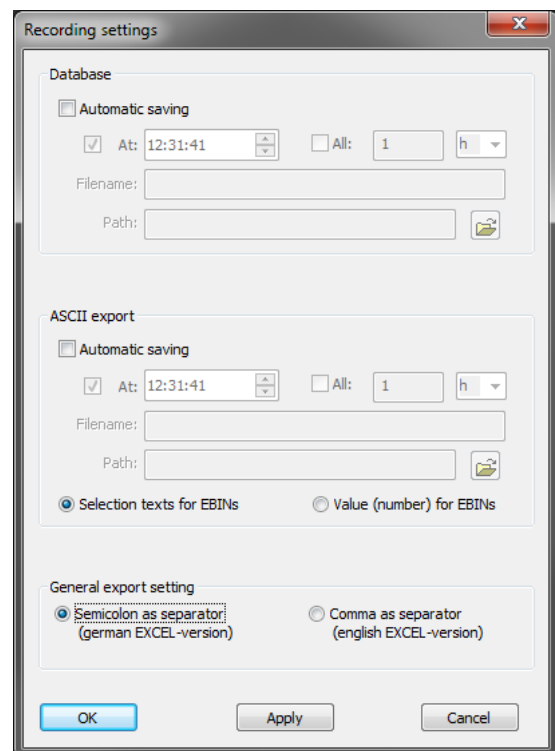
Displays and selects the serial numbers of the connected temperature controllers.

The serial number of the temperature controller currently connected has the suffix "(online)".

If multiple temperature controllers are connected to the PC, the temperature controller required for the communication can be selected based on its serial number (↪ section 3.1.1 "Selecting the communication interface" on page 5).

#### Data storage

This dialogue configures the automatic storage of a recording process. The dialogue is divided into three areas *Database*, *ASCII export* and *General export settings*:



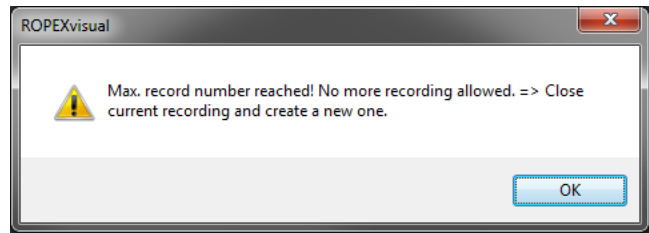
If *Automatic storage* for the database is activated, an ongoing recording process, e.g. in burst mode, will automatically be stored when the maximum database

size is reached. In addition, storage can occur at a specified time or at regular intervals:

At	Automatic storage at the specified time. Unless otherwise specified, storage occurs daily at the specified time.
Every	Interval for automatic storage. The interval can be selected between hours [h] or minutes [m]. If an interval is specified, the first storage occurs at the first possible time at which the subsequent interval matches the time entered at "At". Example 1: <b>At:</b> 10:30, <b>Every:</b> 2 h, current time: 9:20 -> The first storage occurs at 10:30 Example 2: <b>At:</b> 10:30, <b>Every:</b> 2 h, current time: 7:20 -> The first storage occurs at 8:30 because, it will be 10:30 after the next interval, and this matches the entered start time.
File name	File name without file name extension (*.rvd is added automatically) under which the storage occurs. The file name can contain variables, which are replaced automatically: <b>%T:</b> Replaced by the time in HHMM format <b>%D:</b> Replaced by the date in YYMMDD format. Existing storage runs will be overwritten without prompts. So if no variable is entered, only the most recently stored file will be available at the end of the recording process.
Path	File path to which the recording processes. The symbol at the end of the input field allows the path to be selected.

After every automatic storage, the current database is cleared.

If the maximum number of data records<sup>1</sup> is reached with automatic storage deactivated, the recording will end and the following warning will appear:



The same options are available for the ASCII export as for the automatic storage of the database. If automatic storage is carried out, ROPEX Visual<sup>®</sup> generates a file separated by a comma/semicolon.

The current database will be cleared only if automatic storage is not activated for the database.

Further options:

The values of the exported data with enumeration type can be shown as a number or as selection text (recommended).

Under the general export settings, the separator used for ASCII export can be selected, either a semicolon (for German table calculation programs) or a comma (for English table calculation programs). Once the correct separator has been selected, the CSV file can be opened directly from a table calculation program.

**Event notification**

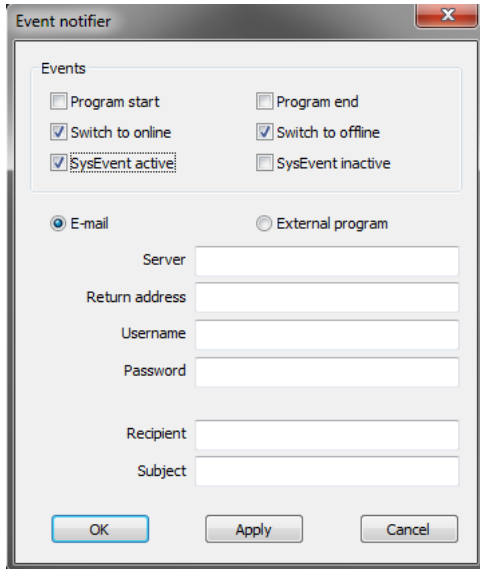
ROPEX Visual<sup>®</sup> Can send an email notification or start an external program for the following events:

- Starting or closing the program
- Opening or closing the communication

1. 30,000 data sets, correspond to approx. 10 minutes in continuous burst mode and a mains frequency of 50 Hz.



- Output or reset of a device alarm (SysEvent)



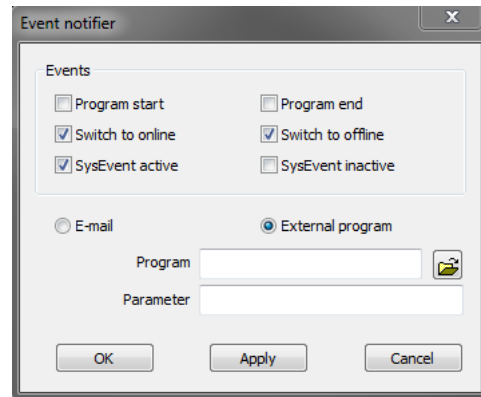
To allow the e-mail notification to be sent, the e-mail server, the sender address and a user name must be entered with a password, should the email server ask for authentication:

Server	The address of the e-mail server used to send the message, e.g. smtp.mailserver.de, 192.168.0.1 or local host. emails cannot be sent via email servers that permit only secure connections.
Sender addresses	The address from which the email is sent.
User name	User name required for logging on to the email server.
Password	Password required for recording on to the e-mail server. If no password is required, this input field can be left blank.
Receiver	email address to which the email is sent. Multiple email addresses can be separated by a comma. In this case, the total content of this input field must be set between inverted commas: "receiver1@maildomain.com, receiver2@maildomain.com"
Subject	Subject line of the email

When an event for the sending email notification occurs, ROPEX Visual® generates the "event.txt" file in the "bin\win" sub-folder of the installation directory. The text contained in the email can be edited by adapting the "Mail.txt" file in the "bin" sub-folder to individual requirements.

**! If the email is unavailable, the times for starting and closing ROPEX Visual® will be delayed, insofar as a prompt is activated for this event.**

If an external program is to be started when an event occurs, the call-up path and any transfer parameters required for this program have to be entered:



### 5.2.2 Access authorization symbol area

**! Password level 0 is the default for access authorisation (e.g. After ROPEX Visual® is installed or started).**

The following password levels are available:

Pass-word level	Pass-word	Options
0	-	Default setting. Displays all setting and configuration data.
1	ropex1	As password level 0.



Pass-word level	Pass-word	Options
2	ropex2	As password level 0.
3	ropex3	As password level 0. In the <i>Status</i> window, the data for "PC control signals" (↪ section 4.2 "Status window" on page 9) can be activated. In addition, parameters (configuration data) can be edited (↪ section 4.6 "Configuration window" on page 12) and the <i>Protocol</i> symbol area is displayed in the communication menu (↪ section 5.1.4 "Protocol symbol area" on page 16).

**Enable**

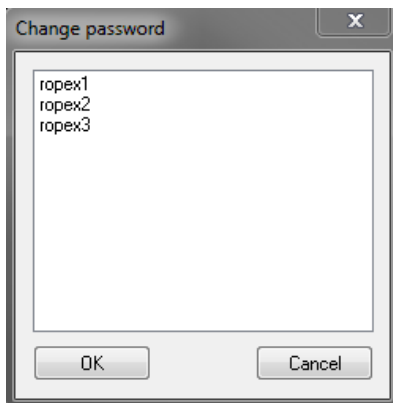
Opens a menu for entering a password for a new password level.

**Disable**

Once this menu is called up, password level 0 is active.

**Passwords**

Displays and changes the currently valid passwords.



Double-clicking on one of the passwords opens a dialogue to change this password.

**! In this menu, the passwords for the currently valid or the lower password levels can be shown or changed.**

**5.2.3 Language symbol area**

**Language**

Language selection for ROPEX Visual®.

**5.3 View menu**

The *View* menu contains the *Window* and *Layout* symbol areas.

**5.3.1 Window symbol area**

**Recording panel**

Opens the logged panel window (↪ section 4.7 "Recording panel window" on page 12). This window shows in detail the data records of the *Graphics* window (↪ section 4.3 "Graphics window" on page 10).

**5.3.2 Layout symbol area**

**Window**

This sub-menu enables the overlapping, vertical or horizontal arrangement of all opened windows. Individual, opened windows can be moved to the foreground by selected the corresponding window names from the displayed list.

**5.4 Style menu**

This menu offers four different colour schemes.

**5.5 Menu ?**

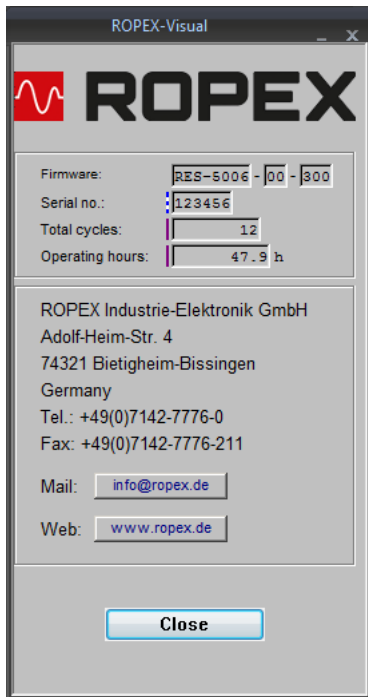
**About Ropex Visual**

Displays all information about ROPEX Visual® and the connected RESISTRON/CIRUS temperature controllers.

In addition to the firmware version and serial number of the connected controller, the operating hours counter integrated into the controller is also displayed.

The total cycles displayed are independent of cycle counter in the *Configuration* window (when present in the controller) (↪ section 4.6 "Configuration window"

on page 12) and show the number of all cycles of the controller since delivery by ROPEX.



**!** The parameters in this menu can only be displayed and not changed, regardless of the access authorisation (↪ section 5.2.2 "Access authorization symbol area" on page 18).

**Help**

Opens the documentation on ROPEX Visual®. The documentation file saved on the PC when ROPEX Visual® was installed is opened. The current version of the documentation is available for download from the [ROPEX website](http://www.ropex.de).

## 6 Status bar

The status bar is at the bottom edge of the screen.



The terms "VIS Online" or "VIS Offline" are displayed to show the status of the transmission modes between ROPEX Visual® and the connected RESISTRON/ CIRUS temperature controller:

- Online: Data transmission is active  
The data displayed in ROPEX Visual® are valid.
- Offline: No data transmission to the RESISTRON/ CIRUS temperature controller (e.g. controller not connected).  
The data displayed in ROPEX Visual® are invalid.

The name of a loaded log file is shown behind "Recordfile:".

## 7 Software version number

**!** The latest version of ROPEX Visual® must always be used to prevent malfunctions. The software is available for download from the ROPEX website [www.ropex.de](http://www.ropex.de).

The installed version of ROPEX Visual® is displayed in the "Programs and functions" folder of the Windows Control Panel:

- START -> Control Panel
- > Open "Programs and functions" folder
- > Display "ROPEX Visual" entry



Software version number

This software version number must always be quoted in case of queries.

## 8 Uninstallation of software and drivers

ROPEX Visual® can be uninstalled in two different ways:

- Call up the uninstallation program for the software at START -> Programs  
-> ROPEX -> ROPEX Visual -> Uninstall

or:

- Uninstallation in the "Programs and functions" folder of the Control Panel:  
START -> Control Panel  
-> Open "Programs and functions" folder

-> Click on "ROPEX Visual"

-> Remove using the "Edit/Remove" button



**Under Windows 7, the additionally installed driver package is automatically removed when ROPEX Visual® is uninstalled following a prompt.**



**During uninstallation, the settings for the event notification, any passwords that may have been changed and the modified "Mail.txt" file will be deleted.**

## 9 Copyright/Trademarks

The software described in this documentation is made available to the customer in accordance with the terms and conditions of the Licence Agreement. These terms

and conditions are displayed as the software is being installed.

Microsoft, Windows 7/8/10 and the Windows logo are registered trademarks of the Microsoft Corporation.

**A**

Administrator rights 4

**B**

Burst mode 7

Burst mode *symbol* 14

**C**

Configuration *window* 12

Controller *window* 9

Copyright 21

**D**

Data storage 16

De-installation 21

Driver installation 3

**F**

File *menu* 14

Firmware revision management 5

Functional principle 3

**I**

Installation 4

**L**

License agreement 4

**M**

Maintenance 21

Menu ? 19

**P**

Playback mode 8

Playback mode *symbol* 14

**R**

Receive mode 7

Receive mode *symbol* 14

Recording panel *window* 12

**S**

Screen layout 6

Settings *menu* 16

Settings *window* 12

Software installation 3

Software version number 20

Status bar 20

Status *window* 9, 10

Style *menu* 19

**T**

Trademarks 21

Transmission modes 7

**U**

Uninstallation 21

**V**

Version number 20